Wi-Fi Plug Pro-25
Product Specification

Documnt version	Modification content	Modifier	Date	Remarks
1.0	First Release	Emma	2022-05-31	

Contents

1.   Product Overview

Wi-Fi Plug Pro-25 wireless supporting product is used to expand the Wi Fi wireless network data transmission channel of the device. It communicates with the device through the USB interface (serial RS-485) and is fixed on the device.，IP65 protection level, easy to install, strong anti-jamming ability, no need to configure additional power and antenna advantages；Supports remote control, remote debugging, remote upgrade and other functions of the device; Access Cloud Server with Operator Base Station. It provides users with a complete monitoring solution with low cost, visualization and remote operation.

This section describes the typical networking of Wi-Fi Plug Pro-25
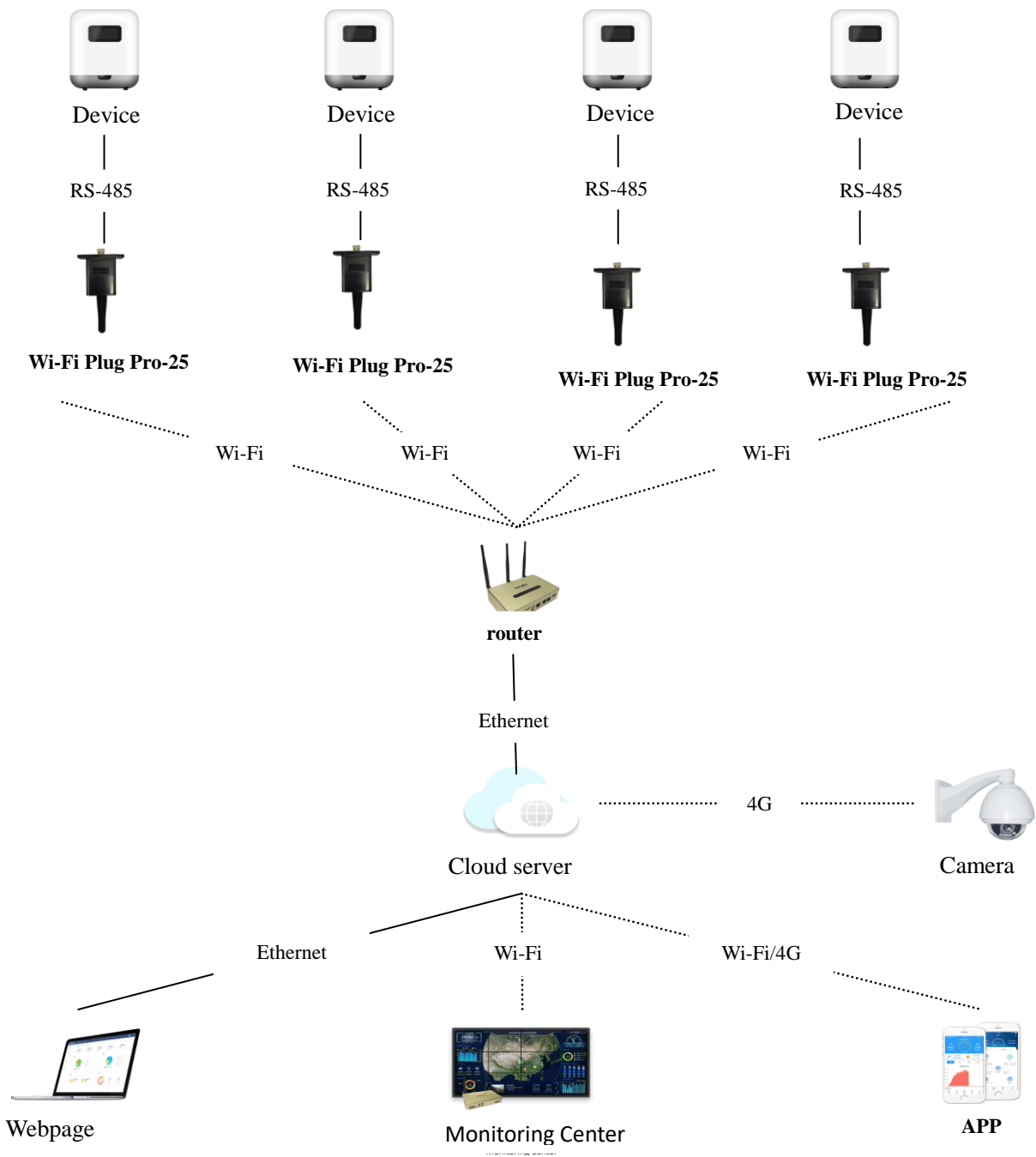
2. Product Features

2.1 Easy to use

(1) Simple installation: Screw Fixing, plug and play;

(2) Loss replacement is simple: external plug-and-drop, no need to disassemble the device, safe and fast;

(3) Configuration is simple: true zero configuration, power-on can be used;

(4) Simple maintenance: remote debugging, remote firmware upgrade (including equipment);

(5) Easy to use: the first step is power on, the second step is networking, and the third step is registration;

(6) Convenient power supply: take power directly from the equipment side without external power supply;

(7) Barrier removal is simple: four LED lights indicate the operation status and intuitively understand the working status.

(8) The networking is simple: no auxiliary equipment is needed, access to the public network directly;

(9) Price concessions: flow package year, economical, do not have to worry about excessive flow;

(10) Simple and convenient renewal: recharge interface is provided on the monitoring platform and mobile app.

2.2 Stable

(1) Selection of devices: industrial grade components, can work for a long time at -30 ~80 C;

(2) Protective measures: under-voltage protection, double protection of software watchdog + hardware watchdog;

(3) Stability mechanism: Heart beat detection, network retry, device disconnection repair automatically;

(4) Data security: Private protocols, data validation, intermittent transmission (caching data when network is interrupted, continuing data when network is restored);

(5) Wide voltage design: DC5V~12V wide voltage design, built-in power anti-back function;

(6) Outdoor waterproof: IP65, suitable for outdoor environment;

2.3 Flexible

(1) Protocol Adaptive: supports automatic identification and switching of multiple communication protocols;

(2) Remote monitoring: can be viewed remotely through the network

(3) Field configuration parameters: parameters can be viewed and configured on site.

3.   Product Structure
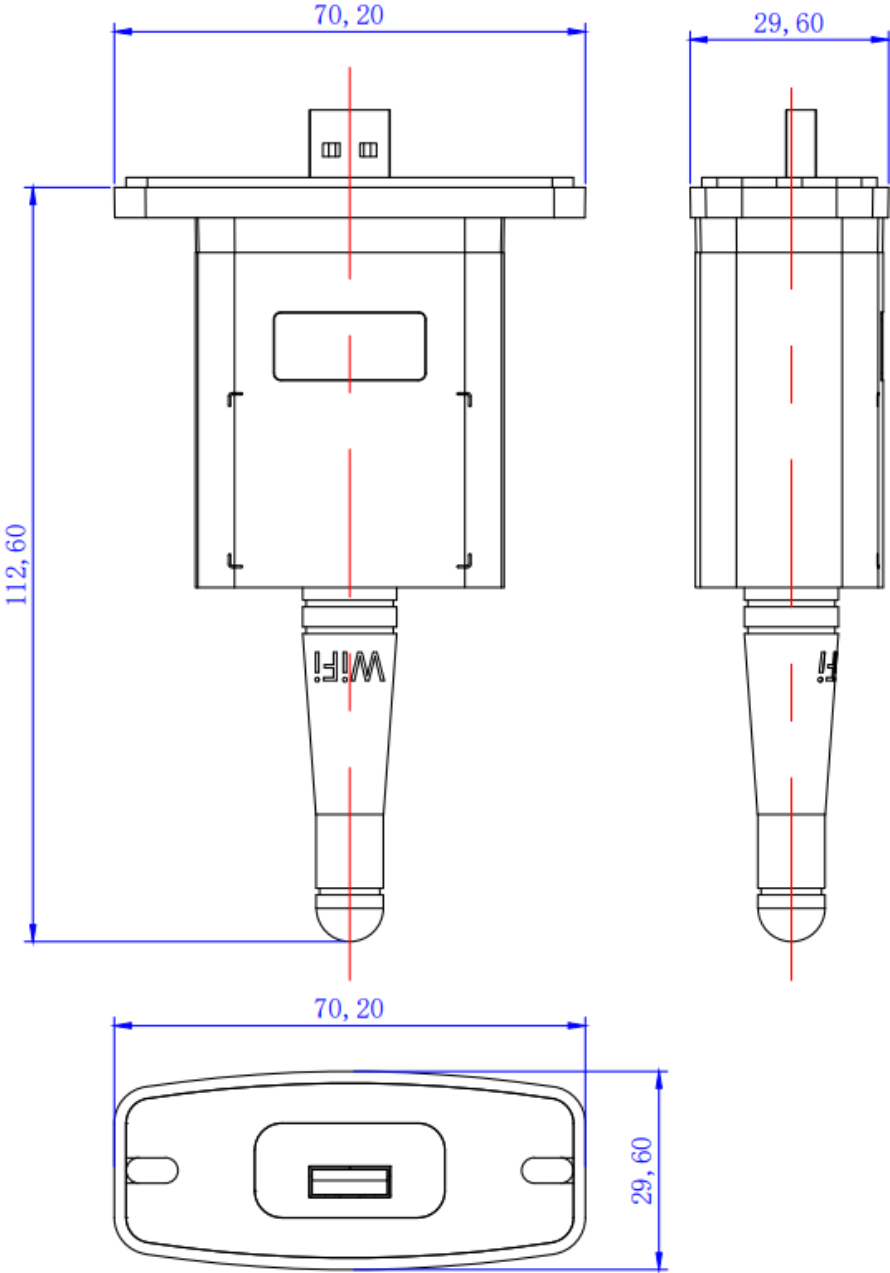
Unit：mm

4. Product Interface

4.1 Port Definition

Pin	Pin definition	Description
1	VCC	Input DC Voltage DC5V-DC12V
2	RS485B/-	RS485 interface B/-
3	RS485A/+	RS485 interface A/+
4	GND	Power source

4.2 Definition of indicator light

Number	Silk screen printing	Description
1	PWR/ Power Supply	Light on: external power input
2	COM/ Equipment	Light on: Subordinate device responded
3	NET/ Networking	Light on: Connect to router
4	SRV/ Connect to cloud server	Light on: Connect to the specified server

5. Product Specifications

Content	Parameter	Value
General parameters	Dimensions (length/width/height)	65*70.2*29.6mm
	Weight	70g
	Protection Level	IP65
	Rated voltage	DC5V~12V
	Maximum Current	2A(DC5V)
	Operating temperature	-30℃ ～ +85℃
	Storage temperature	-40℃ ～ +90℃
External interface	USB connector	For communication and power supply
	Work indicator light	Indicator lights: power supply, equipment, router and server, which are normally on and abnormal when not on
Hardware component	Data entry method	RS-485
	Data Output Method	Wi-Fi
	TTL baud rate	9600bps(default)
	Hardware watchdog	support
Wi-Fi part	working frequency	2.412GHz-2.484GHz
	Wireless standard	802.11 b/g/n
	Antenna gain	2.5dBi
	antenna	External
	Data rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
	Hardware encryption	WEP, WPA/WPA2
	Communication distance	100 metre（Open environment）
	Operating mode	AP+STA(co-existence model)
Software section	Supported Device Protocols	Modbus-RTU(mainstream)，no Modbus-RTU
	Supported Network Layer Protocols	Modbus-TCP
	Software watchdog	Support
	Data upload cycle	5 minutes (default)
	Parameter Configuration	SMS/Remote Server
	Supporting cloud platforms	Eybond Photovoltaic cloud
Other	Number of connected devices	1 set
	Quality Assurance	2 years
	Authentication	CE, ROHS